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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/371,972	08/10/1999	KONSTANTINE I. IOURCHA	252209-2370	9872
	7590 12/28/200 YDEN, HORSTEMEY	EXAMINER		
600 GALLERIA PARKWAY, S.E. STE 1500 ATLANTA, GA 30339-5994			GOOD JOHNSON, MOTILEWA	
			ART UNIT	PAPER NUMBER
			2628	
			MAIL DATE	DELIVERY MODE
			12/28/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		09/371,972	IOURCHA ET A	IOURCHA ET AL.			
		Examiner	Art Unit				
		M GOOD JOHNSON	2628				
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover she	et with the correspondence	address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory perior are to reply within the set or extended period for reply will, by stat reply received by the Office later than three months after the mai ed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMM 1.136(a). In no event, however, n of will apply and will expire SIX (6 ute, cause the application to beco	UNICATION. nay a reply be timely filed) MONTHS from the mailing date of this me ABANDONED (35 U.S.C. § 133).				
Status							
_	Responsive to communication(s) filed on <u>15</u>	Octobor 2000					
2a)□							
3)□	/ 						
٥)ا	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	closed in accordance with the practice under	Ex parte Quayle, 1000	O.B. 11, 400 O.G. 210.				
Disposit	ion of Claims						
4)🛛	Claim(s) <u>1-7,9,12,14,15,23,25 and 26</u> is/are	pending in the application	on.				
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)□	Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
8)🖂	Claim(s) <u>1-7,9,12,14,15,23,25 and 26</u> are su	bject to restriction and/o	or election requirement.				
Applicat	ion Papers						
9)	The specification is objected to by the Exami	ner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the corre	- · ·	-				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign	an priority under 35 H S	C. § 119(a)-(d) or (f)				
	☐ All b)☐ Some * c)☐ None of:	gri priority ariaor oo o.o	.0. 3 110(a) (a) 01 (1).				
α,	,—						
	1. Certified copies of the priority documents have been received.						
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
* See the attached detailed Office action for a list of the certified copies not received.							
	w. x						
Attachmen	• •	A) 🗖 1 (dour Cummon: (DTO 440)				
	ce of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)		riew Summary (PTO-413) r No(s)/Mail Date				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notic	e of Informal Patent Application				
Pape	er No(s)/Mail Date	6) 🔲 Othei	r:				

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-7, drawn to a method of rendering a graphic primitive and determining channel values of an interior point from a first side point and a second side point with a first and second ratio, classified in class 345, subclass 581.
- II. Claims 9 and 12, drawn to a method of rendering a graphic primitive and determining channel values based on a first ratio, second ratio and a third ratio, classified in class 345, subclass 581.
- III. Claims 23, 25 and 26, drawn to generating interpolated values based on received depth values associated with a vertex and calculating a ration and calculating interpolated color values with the ratio value, classified in class 345, subclass 422.
- IV. Claim 14, drawn to a graphic system, classified in class 345, subclass501.
- V. Claim 15, drawn to a graphic system, classified in class 345, subclass 501.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and IV are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be

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practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the rendering of a graphic primitive does not require the graphics system as claimed to perform interpolation of the graphic primitive.

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- 3. Inventions II and V are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the graphics system as claimed is not required for the rendering of a primitive.
- 4. Inventions I, II and III are directed to related processes. The related inventions are distinct if: (1) the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect; (2) the inventions do not overlap in scope, i.e., are mutually exclusive; and (3) the inventions as claimed are not obvious variants. See MPEP § 806.05(j). In the instant case, the inventions as claimed have different designs. Furthermore, the inventions as claimed do not encompass overlapping subject matter and there is nothing of record to show them to be obvious variants.
- 5. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

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(a) the inventions have acquired a separate status in the art in view of their different classification;

- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C.101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after

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the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

6. There are no generic claims. The species are independent or distinct because as disclosed the different species have mutually exclusive characteristics for each identified species. In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would

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not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

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7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M GOOD JOHNSON whose telephone number is (571)272-7658. The examiner can normally be reached on Monday-Friday 8-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on (571) 272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Motilewa Good-Johnson/ Primary Examiner, Art Unit 2628